

Abstract of the Disclosure

The electronic digitizers at the scanning center produce a raw file. The raw file (comprising the three-dimensional information) is further processed and an enhanced output file is produced. The enhanced file is sent to a fulfillment center where the actual conversion into a replica physical object takes place. To allow for faster turnaround times, electronic means are used to send the file to the fulfillment center. The replica is enhanced by additional hand carving or sculpting. The physical replica is further enhanced by mounting the replica on structures that enhance the artistic presentation of the replica. The physical replica can be used as a pattern in casting, investment casting, and casting for mass production. Thus, by coordinating disparate technologies (e.g. electronic three-dimensional digitizers, rapid prototyping machines, casting, investment casting, casting for mass production) and by evolving suitable processes we specifically create a system to produce replica three-dimensional physical objects from captured three-dimensional image data of objects.

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